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L1: Entry 1 of 1 File: DWPI Aug 21, 1996

DERWENT-ACC-NO: 1996-372699
DERWENT-WEEK: 200064

TITLE: Regeneration of used gas-treatment adsorbents - with simultaneous filtration in a reducing atmos.

INVENTOR: DOLIGNIER, J; MARTIN, G ; NOUGIER, L ; DOLIGNIER, J C

PATENT-ASSIGNEE:

ASSIGNEE	CODE
INST FRANCAIS DU PETROLE	INSF

PRIORITY-DATA: 1995FR-0001753 (February 14, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 727253 A1	August 21, 1996	F	011	B01J020/34
ES 2150080 T3	November 16, 2000		000	B01J020/34
FR 2730424 A1	August 14, 1996		018	B01J020/34
TW 283196 A	August 11, 1996		000	F23J015/00
JP 08290056 A	November 5, 1996		008	B01J020/34
US 5730781 A	March 24, 1998		010	B01D053/12
EP 727253 B1	July 5, 2000	F	000	B01J020/34
DE 69609092 E	August 10, 2000		000	B01J020/34

DESIGNATED-STATES: BE DE ES GB IT NL BE DE ES GB IT NL

CITED-DOCUMENTS:DE 3910716; EP 254402 ; EP 356658 ; EP 495710 ; US 5325797 ; WO 8701050

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 727253A1	January 23, 1996	1996EP-0400155	
ES 2150080T3	January 23, 1996	1996EP-0400155	
ES 2150080T3		EP 727253	Based on
FR 2730424A1	February 14, 1995	1995FR-0001753	
TW 283196A	February 9, 1996	1996TW-0101629	
JP 08290056A	February 14, 1996	1996JP-0026780	
US 5730781A	February 13, 1996	1996US-0600727	
EP 727253B1	January 23, 1996	1996EP-0400155	
DE 69609092E	January 23, 1996	1996DE-0609092	
DE 69609092E	January 23, 1996	1996EP-0400155	
DE 69609092E		EP 727253	Based on

INT-CL (IPC): B01 D 53/04; B01 D 53/12; B01 D 53/50; B01 D 53/81; B01 D 53/96; B01 J 20/34; F23 J 15/00; F23 J 15/02

ABSTRACTED-PUB-NO: EP 727253A
BASIC-ABSTRACT:

Process for regenerating used absorbent used in the treatment of non-combustible gases is novel in that the greater part of the regeneration is carried out with filtration and with simultaneous regeneration of the used absorbent on a filtering element in a reducing atmos..

Also claimed is an installation for carrying out the above process comprising a means for regeneration and novel in that it comprises a filtering element is direct contact with the means for regeneration (13) operating in a reducing atmos., the filter element being such that it allows an increase in the contact time between the absorbent and the means for regeneration.

USE - Process is partic. useful for regenerating adsorbents used to remove sulphur oxides from combustion prod. gases (claimed).
ABSTRACTED-PUB-NO:

EP 727253B
EQUIVALENT-ABSTRACTS:

Process for regenerating used absorbent used in the treatment of non-combustible gases is novel in that the greater part of the regeneration is carried out with filtration and with simultaneous regeneration of the used absorbent on a filtering element in a reducing atmos..

Also claimed is an installation for carrying out the above process comprising a means for regeneration and novel in that it comprises a filtering element is direct contact with the means for regeneration (13) operating in a reducing atmos., the filter element being such that it allows an increase in the contact time between the absorbent and the means for regeneration.

USE - Process is partic. useful for regenerating adsorbents used to remove sulphur oxides from combustion prod. gases (claimed).

US 5730781A

Process for regenerating used absorbent used in the treatment of non-combustible gases is novel in that the greater part of the regeneration is carried out with filtration and with simultaneous regeneration of the used absorbent on a filtering element in a reducing atmos..

Also claimed is an installation for carrying out the above process comprising a means for regeneration and novel in that it comprises a filtering element is direct contact with the means for regeneration (13) operating in a reducing atmos., the filter element being such that it allows an increase in the contact time between the absorbent and the means for regeneration.

USE - Process is partic. useful for regenerating adsorbents used to remove sulphur oxides from combustion prod. gases (claimed).

CHOSEN-DRAWING: Dwg.1/5 Dwg.1/5

TITLE-TERMS: REGENERATE GAS TREAT ADSORB SIMULTANEOUS FILTER REDUCE ATMOSPHERE

DERWENT-CLASS: E36 J01 Q73

CPI-CODES: E10-J02D; E11-Q01; E11-Q02; E31-F01A; J01-E02B;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

☐ 1. 2/34/1 (Item 1 from file: 351)

002518766
WPI Acc No: 1980-36794C/198021
Regeneration of gas desulphurisation spent metal oxide adsorbent - using inert gas contg. hydrogen sulphide (NL 7.5.80)

Patent Assignee: EXXON RES & ENG CO (ESSO)
Inventor: CAHN R P; LONGO J M; STEGER J J
Number of Countries: 004 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 2944754	A	19800514				198021	B
NL 7908098	A	19800507				198021	
JP 55070324	A	19800527				198028	
CA 1136384	A	19821130				198301	

Priority Applications (No Type Date): US 78957557 A 19781103
Abstract (Basic): DE 2944754 A

Regeneration of spent metal oxide adsorbents (I), from the Ce, Cu, Fe and Mg oxide gp., used for the desulphurisation of a waste gas stream at 300-700 degrees C., is carried out by contacting (I) with a reducing-regenerating gas contg. 0.5-100.0 (1-70) vol.% H2S, rest unreactive gas (He, Ne, Ar, CO2, N2 and/or stream), at 300-700 degrees C. and a suitable flow rate, pref. of 50-50,000 V/V-hr.

The process is esp. useful for the purification of waste gas from Claus plants and the removal of SO2/SO3 from refinery waste gases or waste gases from the gasification of liquefaction of coal, heavy oil sand refineries etc., H2S being obtd. as by-prod.

Derwent Class: E36; H05; J01
International Patent Class (Additional): B01D-053/34

☐ 2.

2/34/2 (Item 2 from file: 345)

3599945
Basic Patent (No,Kind,Date): NL 7908098 A 800507

PATENT FAMILY:
CANADA (CA)
Patent (No,Kind,Date): CA 1136384 A1 821130
REGENERATION OF SPENT SO2-SO3 SORBENTS WITH H2S AT MODERATE TEMPERATURE (English; French)
Patent Assignee: EXXON RESEARCH ENGINEERING CO
Author (Inventor): LONGO JOHN M; CAHN ROBERT P; STEGER JOHN J

Priority (No,Kind,Date): US 957557 A 781103
Applic (No,Kind,Date): CA 339103 A 791102
National Class: * 23-348
IPC: * B01D-053/14; B01D-053/34
Language of Document: English

GERMANY (DE)
Patent (No,Kind,Date): DE 2944754 A1 800514
VERFAHREN ZUR REGENERIERUNG VON VERBRAUCHTEN SCHWEFELDIOXID-SCHWEFELTRIOXID- ADSORBENTIEN MIT SCHWEFELWASSERSTOFF BEI GEMAESSIGTEN TEMPERATUREN (German)
Patent Assignee: EXXON RESEARCH ENGINEERING CO
Author (Inventor): LONGO JOHN M (US); CAHN ROBERT P (US); STEGER JOHN J (US)
Priority (No,Kind,Date): US 957557 A 781103
Applic (No,Kind,Date): DE 2944754 A 791103
IPC: * B01D-053/34; B01D-053/02
CA Abstract No: ; 93(18)170399Z
Derwent WPI Acc No: ; C 80-36794C
Language of Document: German

JAPAN (JP)
Patent (No,Kind,Date): JP 55070324 A2 800527
REGENERATION OF USED SO22SO3 SORPTION MEDIUM BY H2S AT PROPER TEMPERATURE (English)
Patent Assignee: EXXON RESEARCH ENGINEERING CO
Author (Inventor): JIYON EMU RONGO; ROBAATO PII KAAN; JIYON JIEI SUTEIIGAA
Priority (No,Kind,Date): US 957557 A 781103
Applic (No,Kind,Date): JP 79142712 A 791102
IPC: * B01D-053/34; B01J-020/34; C01B-017/04
Language of Document: Japanese

NETHERLANDS (NL)
Patent (No,Kind,Date): NL 7908098 A 800507
WERKWIJZE VOOR HET MET METAALOXYDEN ONTZWAVELEN VAN AFVOERGASSTROMEN. (Dutch)
Patent Assignee: EXXON RESEARCH ENGINEERING CO
Priority (No,Kind,Date): US 957557 A 781103
Applic (No,Kind,Date): NL 798098 A 791105
IPC: * B01D-053/34; B01D-053/02
Language of Document: Dutch

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L2: Entry 1 of 1 File: DWPI Mar 25, 1987

DERWENT-ACC-NO: 1987-081575
DERWENT-WEEK: 198712

TITLE: Sulphur di:oxide removal from gases - using absorbent contg. magnesia and platinum-group metal

INVENTOR: DESCHAMPS, A; DEZAEL, C ; ROUSSEL, M

PATENT-ASSIGNEE:

ASSIGNEE	CODE
INST FRANCAIS DU PETROLE	INSF

PRIORITY-DATA: 1985FR-0013727 (September 13, 1985)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 215709 A	March 25, 1987	F	008	
CA 1288215 C	September 3, 1991		000	
DE 3664727 G	September 7, 1989		000	
EP 215709 B	August 2, 1989	F	000	
FR 2587236 A	March 20, 1987		000	
JP 62068527 A	March 28, 1987		000	
JP 95071616 B2	August 2, 1995		007	B01D053/50
US 4725417 A	February 16, 1988		006	

DESIGNATED-STATES: BE DE GB IT NL BE DE GB IT NL

CITED-DOCUMENTS:FR 2090554; FR 2222128 ; FR 2279454 ; FR 2373323 ; GB 1089716 ; US 4241033

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 215709A	September 9, 1986	1986EP-0401966	
FR 2587236A	September 13, 1985	1985FR-0013727	
JP 62068527A	September 12, 1986	1986JP-0216927	
JP 95071616B2	September 12, 1986	1986JP-0216972	
JP 95071616B2		JP 62068527	Based on
US 4725417A	September 12, 1986	1986US-0906485	

INT-CL (IPC): B01D 53/02; B01D 53/34; B01D 53/50; B01D 53/52; B01D 53/77; B01D 53/81; B01J 8/00; C01B 17/60

ABSTRACTED-PUB-NO: EP 215709A
BASIC-ABSTRACT:

Removal of SO2 from gases is effected by (a) contacting the gas with a solid

absorbent contg. MgO and one or more Gp. VIII noble metals or their cpds., in the presence of O2; and (b) contacting the absorbent with an H2S-contg. gas.

Pref. the absorbent is based on Al2O3 and contains 1-50 (esp. 2-30) wt.% MgO and 5-20,000 ppm Pt and/or Pd. It is prepd. by impregnating Al2O3 (surface area 10-300 m2/g) with an aq. soln. of a Mg salt, drying, calcining at 400-700 deg.C, and impregnating with an aq. soln. of a Pt and/or Pd cpd.

ADVANTAGE - Gp. VIII noble metals not only catalyse the fixation of SO2 by conversion to MgSO4, but also catalyse the redn. of MgSO4 to MgO by H2S.
ABSTRACTED-PUB-NO:

EP 215709B
EQUIVALENT-ABSTRACTS:

A process for removing sulphur dioxide from a gas containing the same, characterised by a first step of contacting said gas with a solid absorbent containing magnesium oxide and at least one noble metal or compound of a noble metal from group VIII, in the presence of oxygen, and by a second step of contacting the absorbent with a hydrogen sulphide-containing gas, so as to regenerate it. (8pp)

US 4725417A

Sulphur dioxide is removed from a gas stream by contacting it with a solid absorbent contg. 1-50% magnesium oxide and 5-20,000 ppm of at least one noble metal which acts as a catalyst during both the absorption and regeneration stages. The absorption is conducted in the presence of oxygen pref. at 350-750 deg.C. The absorbent is regenerated by contacting it with a hydrogen sulphide contg. stream when the noble metal pref. platinium or palladium acts as a catalyst.

ADVANTAGE - The process gives acceptably fast reaction rates and is esp. suitable for use on sites where both sulphur dioxide and hydrogen sulphide is converted into elemental sulphur. (6pp)

CHOSEN-DRAWING: Dwg.0/1

TITLE-TER MS: SULPHUR DI OXIDE REMOVE GAS ABSORB CONTAIN MAGNESIA PLATINUM GROUP METAL

DERWENT-CLASS: E36 J01

CPI-CODES: E11-Q02; E31-F01A; E34-B01; E34-C02; J01-E03F; N02-F02;

CHEMICAL-CODES:

Chemical Indexing M3 *01*
    Fragmentation Code
    C108 C216 C540 C730 C800 C801 C802 C803 C804 C805
    M411 M750 M903 M904 M910 N441 N514 N515 Q431 Q436
    Q439
    Specfic Compounds
    01674X

Chemical Indexing M3 *02*
    Fragmentation Code
    A212 A940 C108 C550 C730 C801 C802 C803 C804 C805
    C807 M411 M781 M903 M904 M910 Q431 Q436 Q439 Q508
    Specfic Compounds
    01510R

Chemical Indexing M3 *03*
    Fragmentation Code
    A546 A678 A940 C730 C810 M411 M730 M903 Q421